

PATENT Attorney Docket No.: IPT-002.02

(23298-202)
RCFUK

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: A. Edwards et al.

Serial No.: 09/965,654

Filed: September 27, 2001

Title: Protein Data Analysis

) Group Art Unit: 1631

Examiner: Zeman, Mary K.

Confirmation No.: 3485

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231, on April 18, 2003.

Krister Willett

Commissioner for Patents Washington, D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BASED ON INTERNATIONAL SEARCH REPORT IN A COUNTERPART PCT APPLICATION

Sir:

In compliance with the requirements of 37 C.F.R. 1.56, submitted herewith on Form PTO-1449 is a list of publications identified in an International Search Report issued in a related PCT application. A copy of each cited publication and the International Search Report is submitted herewith. Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached Form PTO-1449.

This submission does not represent that a search has been made or that no better art exists. Nor does it constitute an admission that the listed documents are material or constitute "prior art." If the Examiner applies the cited documents as prior art against any claim in the

application and Applicants determine that the listed documents do not constitute "prior art" under United States law. Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of said documents. Should one or more of the listed references be applied against the claims of the present application, Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents.

This Information Disclosure Statement is being filed within three months of the mailing date of the International Search Report and before a first Office Action on the merits; therefore, no fee is believed to be due in connection with the filing of the statement. However, the Commissioner is authorized to credit any overpayment or charge any deficiencies to/from our Deposit Account, No. 06-1448, reference IPT-002.02.

Respectfully submitted.

Agent for Applicants Reg. No. 46,778

FOLEY HOAG LLP

Dated: April 18, 2003

Customer No.: 25181

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"Physican: Physical Sequence analysis for the Identification of amino Acids". Bioinformatics. 15(12): 1028-1038, (1999) Muggleton Stephen. "Declarative Knowledge Discovery in Industrial Database on the Practical, Online 1997, NP 002231172, retrieved form the internet on Federiceser.nj.nec com/eache/papers/es/2653 International Search Report Completed on February 14, 2003 and Mailed on Federical Database on the Practical, Online 1997, NP 002231172, retrieved form the internet on Federiceser.nj.nec com/eache/papers/es/2653 International Search Report Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed on February 14, 2003 and Mailed on Federical Completed On Federi	A. 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Proceeding of on the Practical, Online 1997, XP 002231172, retrieved form the internet on February 14, 2002 effective. r. nj.nec com/each/papers/ex/2653 International Search Report Completed on February 14, 2003 and Mailed on February 28, 2003 DATE COSSIDERED	Application of the Recessory Application of Potents of the International Search Report Completed on February 14, 2003 and Marked on February 14, 2003. URL http://diesecr.nj.nec.com/cache/papers/cx/25/31 International Search Report Completed on February 14, 2003 and Marked on February 14, 2003. URL http://citesecr.nj.nec.com/cache/papers/cx/25/31 International Search Report Completed on February 14, 2003 and Marked on February 14, 2003. URL http://citesecr.nj.nec.com/cache/papers/cx/1455/31 International Search Report Completed on February 14, 2003 and Marked on February 14, 2003. URL http://citesecr.nj.nec.com/cache/papers/cx/1455/31 International Search Report Completed on February 14, 2003 and Marked on February 14, 2003. 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Applied Artificial Intel (1993) Ladunga (stvan.: "Physical. Physical Sequence analysis for the Identification of Protein Domains on the Basis of Physical and of amino Acids". Bioinformatics. 15(12): 1028-1038. (1998) Moggleton Stephen.: "Declarative Knowledge Discovery in Industrial Databases". Proceedings of the Frost International Contractive Contractive Propersists (1993) International Search Report Completed on February 14, 2003 and Mailed on February 28, 2003 DATE CONSIDERED	A Filing Date September 27, 2001 2152 U.S. PATENT DOCUMENTS U.S. PATENT DOCUMENTS DATE NAME CLASS SUBCLASS FILING IN FAPROP FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS FOREIGN PATENT DOCUMENTS OTHER DOCUMENTS OTHER DOCUMENTS CLASS SUBCLASS Transfer Transfer Tourney OTHER DOCUMENTS Chen et al.: "Data Mining An Overview from Database Perspective". Trans. On Knowledge and Data Engineering. Online 1996. NP00223 retrieved from the internet on February 14, 2003. URL http://eitexect.nj.nec.com/ea.he/papers/ev1455 Kim et al.: "Identification of Novel Multi-transmembrane Proteins from Genomic Databases Using Quasi-Periodic Structural Properties." A Bioinformanics. 16(9), 763-775, (2004) King et al.: "Comparison of Artificial Intelligence Methods for Modeling Pharmaceutical QNAKS". Applied Artificial Intelligence 9: 213-(1995) I. Ladunga Istvan. "Physical Sequence analysis for the Identification of Protein Domains on the Basis of Physical and Chemical Professional Properties (1995). New York (1995) Muggleton Stephen. "Declaration for New Order from the internet on February 14, 2002, URL http://disease.com/grapers/ev28453 International Scarch Report Completed on February 14, 2003 and Mailed on February 28, 2003 International Scarch Report Completed on February 14, 2003 and Mailed on February 28, 2003	